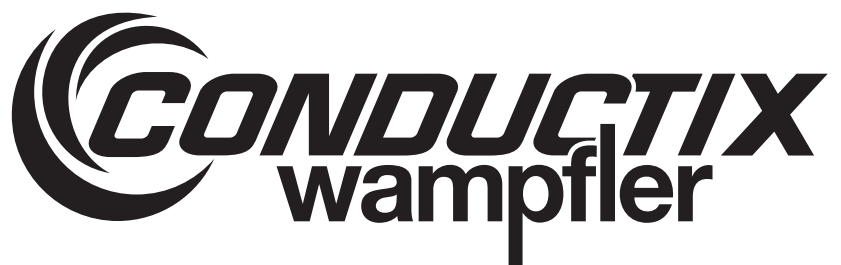


Pendant 60 Series

Manual



CONDUCTIX INCORPORATED

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Need Field Service for our products? We Can Handle It!

Ask us for a quote on expert system installations, inspections, preventative maintenance, and repairs/retrofits.

As the world's largest single source manufacturer of mobile electrification products, Conductix-Wampfler has the unique ability to offer a degree of service not found anywhere else. Conductix-Wampfler's team of highly qualified service technicians and engineers have years of experience servicing our complete line of products.

We can provide:

- **Annual Service contracts**
- **Installation**
- **Commissioning**
- **Installation supervision** to ensure your installers avoid common mistakes.
- **Troubleshooting** to get you up and running.
- **Pre-planned inspections** to complement your preventive maintenance program.

Call 1-800-521-4888 for further details.



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SECTION 1 - SAFETY

Safety Information Responsibility

All owner, operator, and maintenance personnel must read and understand all manuals associated with this product before installation, operation, or maintenance.

The manual provides information on the recommended installation, operation, and maintenance of this product. Failure to read and follow the information provided could cause harm to yourself or others and/or cause product damage. No one should install, operate, or attempt maintenance of this product prior to familiarizing themselves with the information in this manual.

Product Warranty Information

Tampering with the product in any fashion will automatically void the warranty. Additionally, tampering with the product can result in a shock hazard.

Safety Messages

The following safety messages are used in this manual to alert you to specific and important safety related information.

CAUTION

CAUTION indicates unsafe actions or situations that have the potential to cause injury, and/or minor equipment or property damage.

DANGER

DANGER indicates hazards that have the potential to cause severe personal injury or death.

WARNING

WARNING indicates unsafe actions or situations that have the potential to cause severe injury, death, and/or major equipment or property damage.

NOTE

NOTE is used to alert you to installation, operation, programming, or maintenance information that is important, but not hazard related.

SECTION 2 - FEATURES/SPECIFICATIONS

Features

- Available in two- and four-button with single-speed switches.
- The enclosure is a high-visibility orange (or yellow for pistol grip) color and is constructed of high-impact, high strength plastic, for operator safety.
- Pendant is ergonomically designed for single hand operation with low effort push-buttons for reduced operator fatigue.
- The unit is dust-tight, water-tight, and completely insulated to prevent electrical shock.
- An external strain-relief tie point and an internal cable-clamp are provided for added support.
- A multi-stepped flexible cable entry bushing with band clamp prevents entry of foreign matter, and is easily selected to fit cable diameter.
- Various standard push-button legends are available for marking each push-button.
- COB61, COB62, and pistol grip are designed for NEMA4 indoor use only.

Mechanical Specifications

- **RECOMMENDED CABLE:** Type SO or equivalent, copper conductors, 75°C.
- **CABLE DIAMETERS FOR BUSHINGS SUPPLIED:** 8 mm (min) through 16 mm (max).
- **EXTERNAL STRAIN RELIEF:** An external strain-relief tie point on the bushing collar has been supplied for the connection of an external-relief wire attached to the upper junction box of the cable.
- **TORQUE VALUES:**
 - Enclosure screws: 15 in.-lbs.
 - Internal cable-clamp: 10 in.-lbs.
 - Electrical terminal screws: 10 in.-lbs.
 - Switch mounting screws: 20 in.-lbs.
 - External band clamp: 10 in.-lbs. **(Do not over-tighten!)**
 - Cable bushing collar: 25 in.-lbs.

Electrical Specifications

- General purpose: 120VAC, 5A and Pilot Duty B150.
- ACIS rating: 250VAC, 2A for 500,000 operations.

WARNING

Turn off all power supply sources and lockout while working on pendant!

SECTION 3 - INSTALLATION

Initial Install

1. Loosen rear cover screws and remove back cover from pendant.
2. Remove two (2) screws on top of pendant and remove top bushing collar.
3. Slide the external cable-bushing collar up the cable before putting the cable through the bushing.
4. Slide the bushing and band clamp over the cable making sure the bushing fits snugly over the cable. If the bushing is loose, an adequate seal will not be achieved and moisture may leak inside the pendant. Contact Conductix-Wampfler or your dealer should the cable fit too loosely. Use a lubricant if necessary to feed the cable through the bushing.

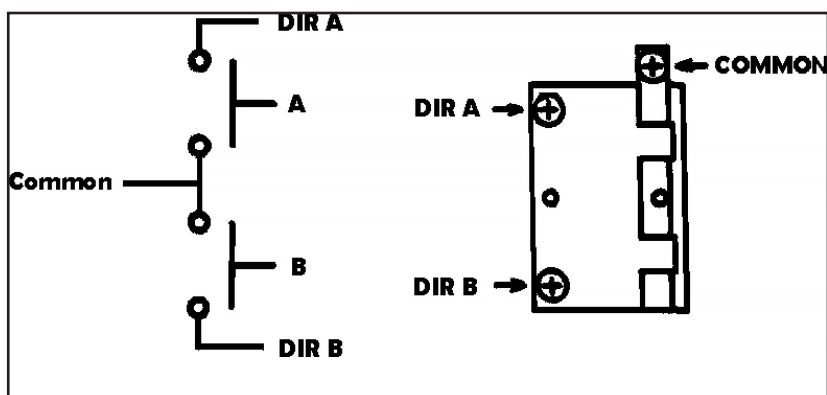


Figure 3-1: Schematic

5. Slide the cable into the top of the pendant, and underneath the internal cable-clamp. Slide the bushing collar down the cable and over the bushing, and screw down into place making sure that the bottom of the bushing is seated properly in the top of the pendant. Tighten the internal cable clamp to recommended torque values. Tighten band clamp for a water tight seal at cable entry. Observe torque recommendations.
6. Terminate wires to be connected to the unit with UL listing ring terminals. Connect wiring connections to the push-button terminals, tighten using the recommended torque values above. Keep wire lengths as short as possible.
7. Once wires have been terminated inspect for correct operation of contacts. Depress each push-button and verify that each button returns freely to open position. Also check operation of mechanical interlock. Tighten switch mounting screws if switch block appears loose. Observe torque values above when installing or replacing any components.
8. Two methods of strain relief are available with the COB60. Choose the one most suitable to your application.
 - External strain relief cable or chain connected to bushing collar via "S" hook.
 - No additional strain relief clamp wire with cable clamp only.
9. Reinstall the rear cover observing torque values above.
10. Check operation of pendant before returning to service. Do not use any piece of equipment that demonstrates irregular operation.

Legend Insert Replacement

1. Remove existing legend insert by using a small screwdriver to pry off the plastic button cover.
2. Place the new insert in the recessed area, and replace the plastic cover by lining up the guide notches and depressing it into place.
3. All Conductix-Wampfler 60 Series push-button switches come equipped with an ANSI warning label. Should this label become illegible, contact Conductix-Wampfler for a replacement.

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